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#### Published:

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 10 October 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: STENTS AND METHODS FOR PREPARING STENTS

(57) Abstract: Radially expandable stents having hydrogel coating layers thereon, and methods of preparing such stents are disclosed. The methods include coating a wire with a solution that includes a solvent and a water soluble polymer in the solvent, evaporating the solvent to provide a polymeric coating on the wire, and crosslinking the polymeric coating to provide a hydrogel coating layer on the wire. The coated wire can be fabricated into stents, which preferably have substantially uniform coatings with low surface roughness. Preferably the coatings have hydrophilic properties and provide a biocompatible surface. The coatings may also provide for the delivery of biologically active agents into the body.

# INTERNATIONAL SEARCH REPORT

Internation No PCT/US 01/44445

A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER A61L31/10 A61L31/16 A61F2/06			
A coordinate	International Patent Classification (IPC) or to both national classificat	tion and IPC		
B. FIELDS		ion and ii O		
	cumentation searched (classification system followed by classification	n symbols)		
Documentati	ion searched other than minimum documentation to the extent that su	ch documents are included in the fields se	arched	
Electronic da	ata base consulted during the international search (name of data base	e and, where practical, search terms used)		
EPO-Int	ternal, WPI Data, PAJ			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.	
X	EP 0 895 761 A (SCHNEIDER USA INC 10 February 1999 (1999-02-10) paragraph '0014! paragraph '0023! claims 1,6-9	)	1-21	
х	WO 96 25897 A (MENLO CARE INC) 29 August 1996 (1996-08-29) claims 1,2,6,8,9		1-21	
A	US 5 968 091 A (FRID NOUREDDINE 19 October 1999 (1999-10-19) cited in the application claim 1	ET AL)	1,8,12, 18-21	
Furt	her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.	
Special ca	ategories of cited documents:	*T* later document published after the Inte or priority date and not in conflict with	the application but	
consider • earlier	A* document defining the general state of the art which is not considered to be of particular relevance  E* earlier document but published on or after the international filling date  Considered to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to		laimed invention	
"L" docume which citatio	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) sent referring to an oral disclosure, use, exhibition or	involve an inventive step when the do "Y" document of particular relevance; the cannot be considered to involve an in document is combined with one or manual to the combination being obvious and the combination being obvious.	cument is taken alone claimed invention ventive step when the ore other such docu-	
P' docum	means ent published prior to the International filing date but han the priority date claimed	in the art.  *&* document member of the same patent	·	
Date of the	actual completion of the international search	Date of mailing of the International sea	arch report	
5	August 2002	20/08/2002		
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016		Authorized officer  Heck, G		

# INTERNATIONAL SEARCH REPORT

International application No. PCT/US 01/44445

Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210				
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This inte	ernational Searching Authority found multiple inventions in this international application, as follows:				
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
з. [	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:				
Remari	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 18-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Intermal Application No
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